

5
Mrs L. G. Dyar

In Account With

BARTON & WILLIAMS,

Dealers In

GROCERIES

Flour, Provisions, &c.,

East Market Street,

RHINEBECK, N. Y.

511 = 403

511.

Cerua var of cinerea or
modesta on narrow leaves
willow Plattsmouth N.Y.
Sept 17 1894

Stage IV ~~to~~ blackish purple
with pale dots, mouth
area behind eyes pale
2 horns on 2 spinose, a slight
elevations on 3 post, setae long
distinct, black tars spinose
D. band dark purple, scarcely
horn, narrow to hump 5,



wider, slight irregular on 7
to space on 8, narrow very
regular to measure 11-12
and wider slightly on

SCIENCE (WEEKLY.)
TWELFTH YEAR.

N. D. C. HODGES,

874 BROADWAY,

In reply to yours of the

New York, 1894.

MR.

DEAR SIR :—

After various negotiations with a view to the revival of SCIENCE, the publication of which was stopped on March 23d, on account of the difficulty in making collections, a plan of co-operation with the American Association for the Advancement of Science was arranged at its recent meeting, by which the Association grants an annual subsidy to the Journal, as do its founders, Prof. A. GRAHAM BELL and the Hon. GARDINER G. HUBBARD.

To co-operate with the editor and publisher in carrying out the provisions of the agreement, the American Association appointed an Executive Committee, consisting of Prof. W. J. MCGEE, Chairman, Washington, D. C.; Prof. FRANKLIN W. HOOPER, Brooklyn, N. Y.; Prof. R. S. WOODWARD, New York; and, *ex-officio*, Dr. DANIEL G. BRINTON, Philadelphia, President of the Association; and Prof. FREDERIC W. PUTNAM, Cambridge, Mass., the Permanent Secretary. Also ten Associate Editors were designated, corresponding to the ten departments of Science recognized in the organization of the Association.

The carrying out of the plan depends primarily on the number of old subscribers who can be held and new ones secured; and the main purpose of this letter is to ascertain how large receipts may be counted upon from this source. If you are already a subscriber, the Journal would of course be sent for the balance of your term. There are a few of our readers who are able and willing to subscribe more than the regular yearly price (\$3.50), sending ten, fifteen, twenty-five and even fifty dollars. Twenty-five dollars is a favorite amount. For these larger amounts copies have been mailed in some cases to beneficiaries designated by the subscribers and in others no such equivalent was desired. I do not hesitate to suggest such subscriptions, partly because I have unfortunately done my share in maintaining SCIENCE, and partly because any surplus that may accrue in the future will go toward paying back the subsidy from the American Association for the Advancement of Science. But I earnestly hope no one, in a moment of enthusiasm, will subscribe an amount which he may find it inconvenient to remit later.

In case a sufficient number of subscribers respond favorably to make it certain that SCIENCE will start with as large a subscription list as it possessed when publication was suspended, the additional financial support offered by the American Association for the Advancement of Science and its founders will place the Journal on a good financial basis; and the co-operation of the American Association, by which ten associate editors are provided and the proceedings of the Association and its several sections are to be more or less completely published in the Journal, will assure a larger sphere of usefulness for SCIENCE.

Yours very truly,

N. D. C. HODGES.

511.

Cerua var of cinerea or
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Sept 17 1894

Stage IV. Hd blackish purple
with pale dots, mouth
and behind eyes pale
2nd horn on 2 spinose, a slight
elevation on 3 post, setae con-
spicuous, black tars spinose
D. band dark purple, scarcely
horn, narrow to hump 3,



widens, slight irregular on 7
to space on 8, narrow very
regularly to incision 11-12
and widens slightly on

12-13, giving appearance of
3 patches, the 3rd on 12-13
obscurely noticeable
Sides green dotted white
purple; posterior white
Sd shading 7-9. D
band edged with yellow
(diet full of flies)

se

511 = 403

Little hibernating Parorgyia cinnamomea?
 from Mr. Doel, Oct 1, 1894. Black; hair
 thick, light brown, absent around the
 faint solid reddish ret. tubercles.
 Short black pencils on 2 and square
 black tufts on 5 & 12, partly black
 on 6, on 7 & 8 slightly feathered and a
 little more whitish than the other
 hairs. Unusually small, only $4\frac{1}{2}$ mm
 long. Width hd .8 mm. Shiny black
 clasper of abd feet pale but venter black
 In some parts quite red. Hair all hirsute

This is lobelineae formae

513

Feb 17 1897

Gray on bark of white oak. Looks exactly like a Tolyte or Spitelodes angelica but has wants of an Acronycta-noctuid and no lappets. Head large, scarcely bilobed, shaped, black above, a broad shaded grayish white band runs transversely, festooned up over clypeus. Gray, mouth black, a few white hairs. W. $5.5 \pm$ mm. Body a little flattened, at least appearing so, slaty gray, a grayish white d. & sd line and diffuse super & sub-sty patches. Warts small, several haired, hair short, black i-iii, white longer and more abundant iv-vi; iv small, ii ii is a square. on 12. Dorsum thickly covered with 2^d black points; laterally small 2^d white hair begins and become abundant and long s-v. Sprinkles black, a yellowish diffuse

Oct-May 7 1897 cat no 12724

patch between i-ii and around iii. Feet normal, (12 very slightly enlarged d. a few long black hairs at extremities. Warts slightly shaded with blackish.

513A On white oak Burkhaven L.I. Stage not desc. Shed Sept 18 Hd 2.2 bilobed, cranium above apex of lobes red, ground white thickly mottled with black patches, Body ^{black dots} gray, a whitish d. & sd line i-iii white with black hairs (2 or 3); iv very small v-vi with abundant soft white hairs. A tiny black dot before i. & grayish shade between i-ii. Head too large. 12 enlarged ii ii is a square. Shed Sept 25 Hd 3.5 same, patches on Hd of dots. top of lobes red. Gray, very faint grayish white d. & sd line. Hair fine small nearly conical unit i-iii few black, iv abundant white s-v mouth 2^d. Skin above with fine black points. Gray yellow small spot between i-ii on 5-11. Sprinkles black ringed. Later long blue gray & a yellowish diamond patch 5-12 above on 5-12 blackish shaded. this first before molt. Shed Oct 1 Hd 4.4 as before exactly. Shed Oct 11 Hd 5.7 Same Hd pale gray with angular spot. of dots whitish gray, ^{in a band} ^{base of s.} top of lobes dark black red. in 5 spot. Body as before. Same till Oct 22 when it suddenly thinned like 513 to J. Superstij patches

514

Larva of *Phryganidia californica* from
J. G. O. Mueller, San Francisco, Cal.



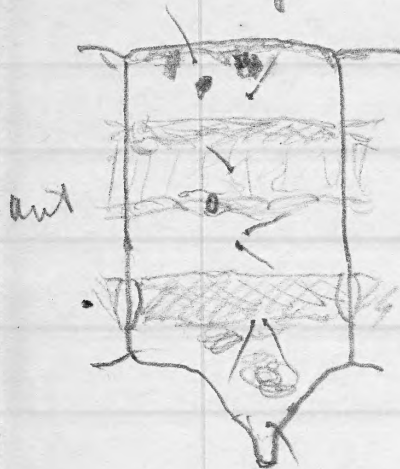
Setae very small and
inconspicuous (Here shown
large to give position
and relation only.)

Larvae very noctuidiform,
joint 12 enlarged and
13 small; anal feet
slender, divergent and

look weaker than the others. (See dorsal)

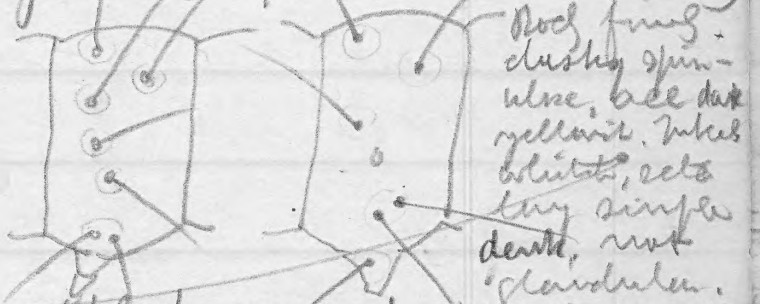
515

Heterogynis paradoxa, bluish larva from
Standinger.

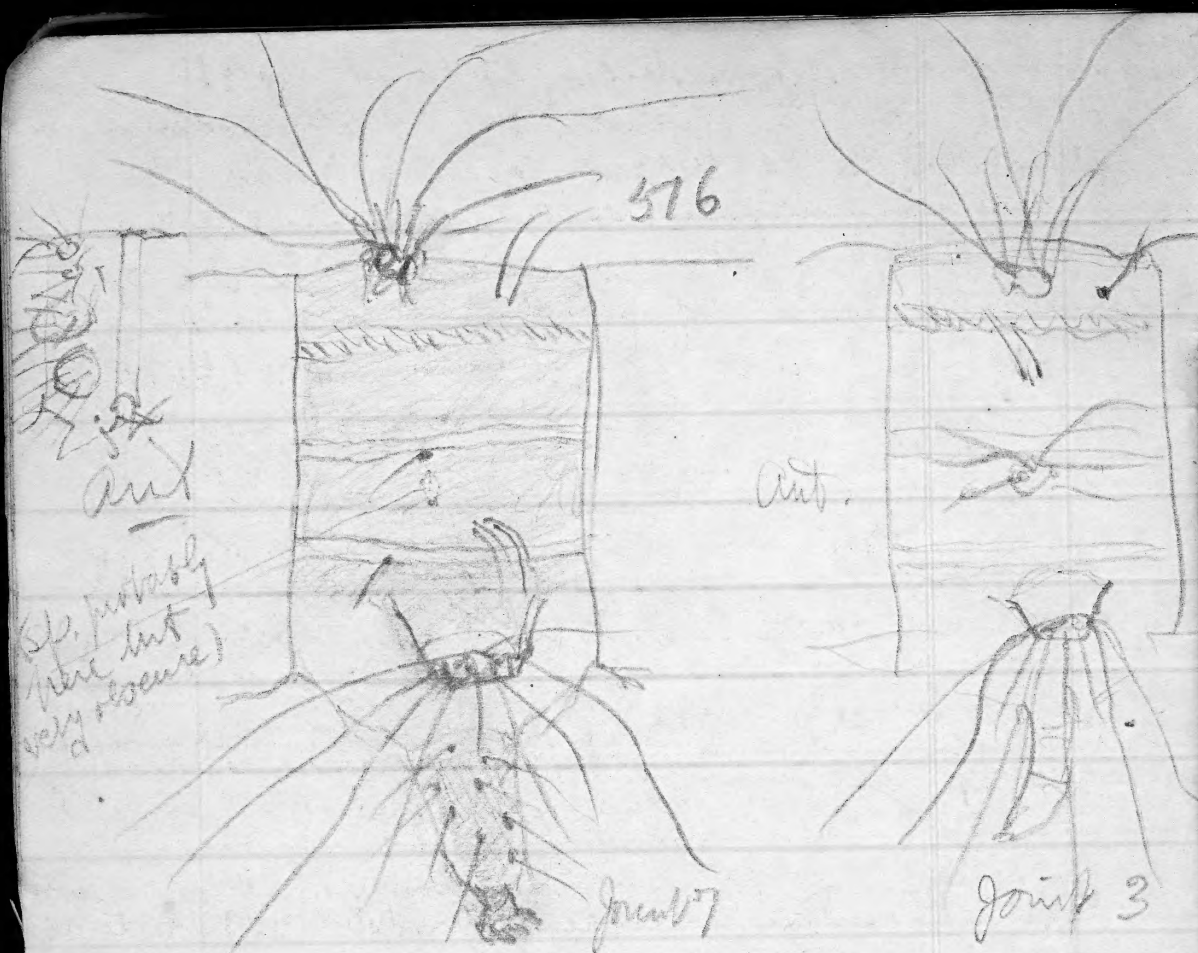


Feet with single, well
hooked crotchets in
a half circle on the
inside. Larva marked
like an exposed feeder
with a *Tachina* egg on it
cocoon from Dr Chapman

June 3 1897 (*Heterogynis penella*)
found ^{first} ^{larvae} in ♀ pupa
June 11 (may have been there all the time)



Hd trilobed c-sh. c-sh. feet black, no marks. Hd. joint, retractile
tubercles black but smooth and whitish areas. Setae ground
whitish, head, lat. & s-v lines, d. rarely on propleta belly
peel i, lat. before ii and forming ring around iii. The
s-v contains pale spots for vi but neither tubercle nor seta
and diffused almost reaches pale viii. iv+v are in white.
Shed June 21 blackest horn, a diffuse greenish, d., distinct s-s
and tubercle white. Setae pale spinulose, vi present with 2 hairs
3 on tubercle like previous. It without seta add. below i, below ii, below
iii, below iii - behind v - (above ii). Scattered & thick; balls up. Hd
retractile .4 ± csh & 6-banded.



Sl. probably
here but
very obscure

516

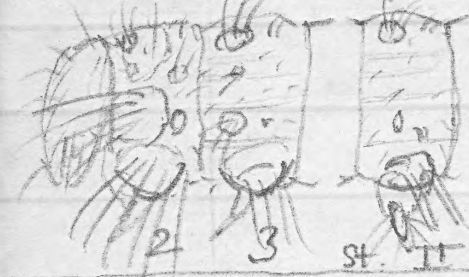
Ant.

Joint 7

Joint 3

Tolyte velleda stage I from m.
L. H. Jontel, March 20 1895
(Largest hairs 5 times thickness of body
VII & VIII represented on 4 c's by short
actae Red blackish above, paler
below with ^{geminate dorsal} s.d, lat & s-s, whitish lines
the s-s broadest. the sd yellowish tinted
Hair long white, warts blackish, feet
black. Wart s-d on 2 large. Hd blackish
not shining, line above is white. W. hd 6 m. 57
Spin a little web on a bud on which it
sits and returns after feeding. Later the

orange s-d band become broad, the lateral c-sty narrow
but distinct, geminate d. joint. 3-4 a little enlarged but
no structure, the s-d tubercle distinct, black
Molt Mar 31 Head dark gray, rounded, not shining; w. 8 mm.
add, s.d, lat. superficial, s-s. whitish lines, the s-d
stained with a large diffused orange patch below; i
2 vi large with very long pale hair, iv visible ($\frac{1}{2}$ inch off)
other list among the sparse short pale secondary hairs
spiracle evident, a little lower than represented in sketch
and close to iv. s-d warts on 2 large, pale. Row: black
minute on 2; iv black whole length with pale ring before
hairs. 12-13 blackish the rest of line obsolete but thin
extremities. The additional line (called lat.) corresponds to one
between the s-d and "lat" of stage I. i on 3, 4 & 12 larger
than elsewhere. Feet pale. (abundant during on to lat. line)



Mar 31 April i & v large blackish gray
with very long pale hairs, stage 2-4
also large esp on 2 the other list
among the short pale sd hair which
are moderate abundant, 4 & 12 enlarged
dorsally, i on 12 more approximate than
elsewhere but by no means united
Hd dark gray dorsal white hairy w.
Body dark gray add, s.d, lat, superficial, sub-sty lines and a row
of tubercles along warts vi pale yellow, s-d line orange. c-sty c
anal pl. gray, the line becomes narrow & pale on 12-13
marked a little with yellowish streaks. Post ix becomes distinct,
marked about 9 or 10 distinct on 12 and on 13 the vi is very large & placed
posteriorly, there being no corresponding unit in 3; can't distinguish 12-13 well
venter pale; leg plates quite large, dark gray. Larva flattened
Died Apr 25

Tolyte velleda (Dr P.)

- ① s-d 2-13 approx on 12
- ② lat 2-4
- ③ s-v 2-11, 13



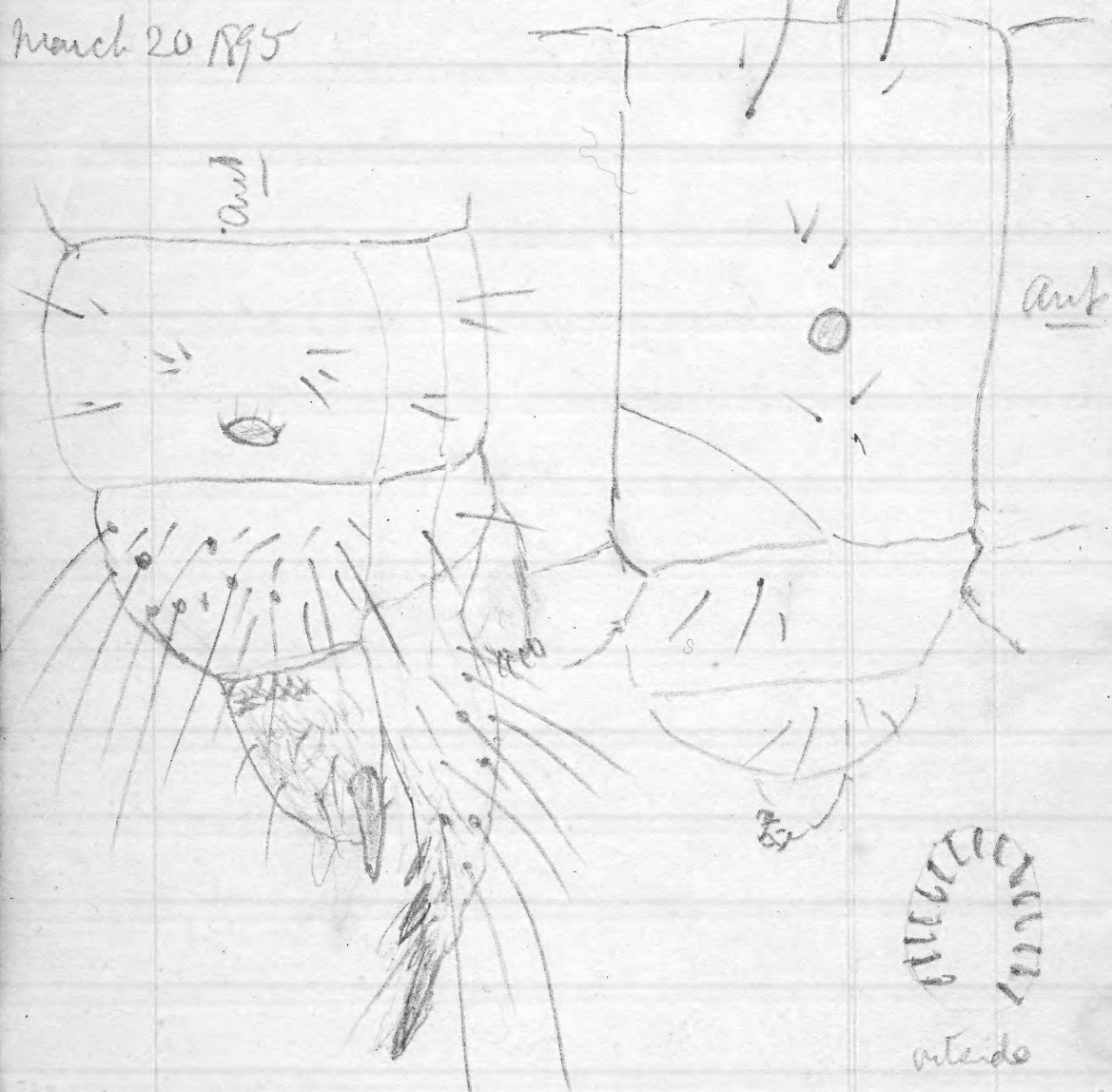
On 2-4 there is a small lat one
On 12 the two ① are continuous on a
slight prominence. On 2 ① on c-sty
① lat ③ s-v, trace of 2 nd on c-sty
Little one same s-v about on 12

antecce *punctistigma* (Dr P.) just on 12
very small but appear same i.e. ① s-d 2-13 approx ② s-v 2-11

See *Alucita kellicottii* Fish
C. ent XII 105, XIII 141.

517

T-moth larva, bores in golden rod stems, found
in winter at base. From Mr. L. H. Jostel
March 20 1895

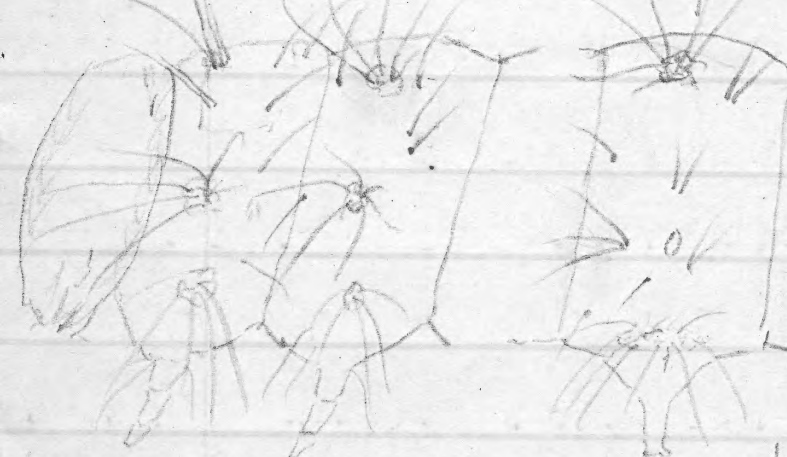


Larva white to orange testaceous partly
under 2. 2 diffuse concolorous, no defined
shield. Setae brown, joint 13 brownish
from the cornification & hairs. No marks.

578

Apr 29 1895

Eggs of *Clisiocampa pluvialis* (intergrade ad *fragilis*)
from C. V. Piper, Pullman, Washington
Hatched April 9, 1895. Entirely black with long
pale hairs. Hair rather numerous, from
small warts, finely tubuled. Under $\frac{1}{2}$ inch
there is a sd luteous patch on post edge of
(see later) each seg. i large, ii small, single hair lat. and
considerable s-v. Hd not shiny with pale hair w. 4 branches



ate wild cherry
& refused willow
As stage adv. the
dist. orange yellow 5-10

patches sd at post edge of segs spread and the s-v 2+
Molt April 20 appearance same but not shiny and
more hairy. Later sd orange become Δ and
lateral 1-5-8 pale lines appear, all markings
obsolete at extremities. Patch wide Δ behind,
absent in front of it. Hair in middle sometimes
joins the lat band post. Hair faint reddish
appears all same color. Bands clearly lateral
and s-v ($\frac{1}{2}$ inch) orange colored like patches also at
ends, i large black, iv and one before spiracle
conspicuous. Hair rather scant. No other marks

519 B

with 519, Hd 3.2 ± brown black shiny.
Body black, becoming translucent brown
in creases and s.v. 2 brown black.
Wings very black, s.v. line long, brown
feet: 1st plate pale. sd. v. 1 on 2, 3
very closely appressed but soon separate.

520

Heavy brown textured with 519, Right
brown covered all over with dotted black
reticulations which segregate into broad
offered a 1st shade bands, small
narrow black turned. (Hs. corner brown
pale, dotted with brown black on the body
to brown 1/2 of antenna pale, yellowish
Setae very short, fine, pale on 1st, 2nd, 3rd
feet pale, 4th, 5th & 6th plate pale on
brown brown. Small black dots on 1st
brown brown. Small black dots on 1st

Calcs 5 78 1.17 1.8 2.72 rat 66
52 85 1.3 2.0 3.0

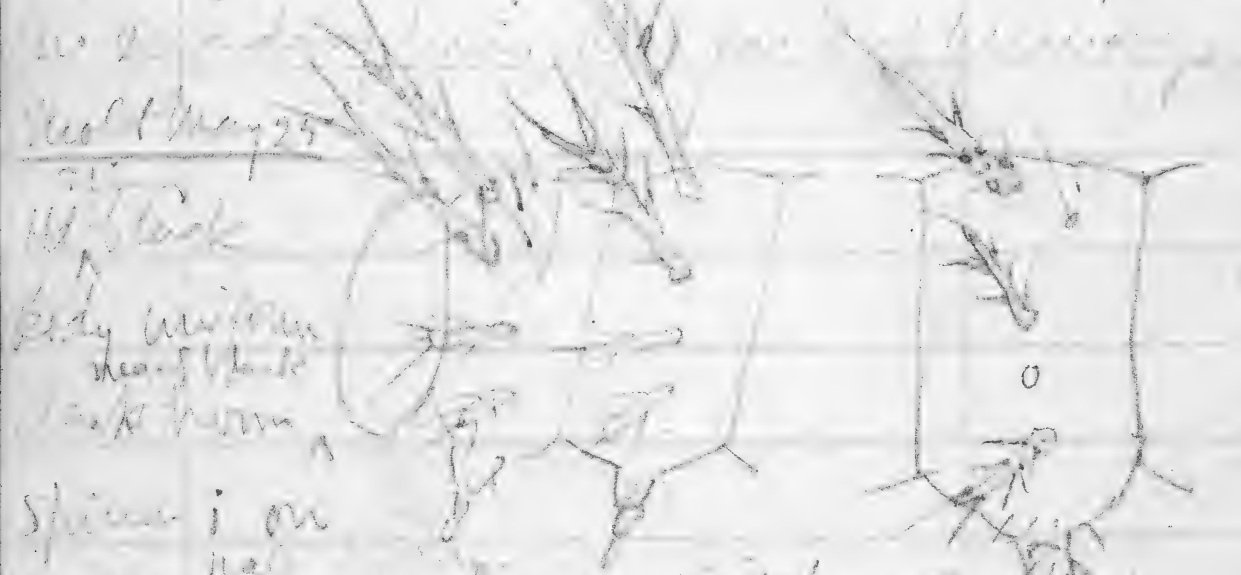
521

Cyrtia antiqua from England (See Edmund)
noted (not way). Egg laid naked on leaf.
Stage I Like O India, sd. v. 1 on 2, 3
Stage II (May 8) Like India. 5-8 very black
Stage III (May 12) Bright, 2 black 2 white tufts
Pencil short square, on lateral ones. 1st
perianth bright, with reddish, 2nd black
yellow brown, indistinct, various. all white
apophyses traces of side tufts
Stage IV (May 17) white side tuft vs, black
v 6 distinct, brown very feathery but scarcely
plumed. Pencil short but longer than
1st, well plumed. Tuft 2 black 2 white
with distinct, red. Some of any marks on 1st
wings 1st size pinkish. (Like in ant. 1st)
Another 4 white tufts - all alike (= mature ♂?)
12 has black, 2 white with some black hair in 3rd tuft
II a number like 9 but look smaller; a few
with white tufts but small
III 1st molt (Hd 1.6 / new hd 2.2, 4 white tufts)
new hd 1.8, 1.857 new hd 2.82 or more hd 2
before new molt 2 = A molt on 30 Hd 1.8 new hd
2.1 ± All of new June 3 Image 7 June 6

Heurileria californica from R. H. French.
 Hatched May 10. All black, setae pale,
 hd shiny, w. 8 mm.




style 12 & 13, more or less by late.
 (by single more from one (not fat)



Head May 25
 1st black
 Body uniform
 head black
 black horn
 Spine 1 on
 4-12 range, fading to white anteriorly
 the rest black. Setae quite thin, but
 and more springy in 1st part of 11 & 2 than
 very few and white. Spine very white when
 just shed but grows out & looks "pluff" then.

The pale brown spines are not so faint as black
 tipped. 12 fuscate, brown, sometimes black
 at base. 13 shorter fuscate, black.
 molt June 1st shiny black with a
 undistinct body, ^{black} faintly dotted with yellow
 with a more or less distinct broken, narrow
 yellow sd & s-s line. Spines 4-12 on brown
 brown, the rest black; setae stiff & shiny,
 pale, the tips & some of the longer branches
 whitish. Shaft of 1 short with
 numerous branches tipped by setae
 but in 2 & 3 short & very few
 branches separated. 11 a smooth
 elliptical scar
 ventral 2nd horn brown. The 1st horn Co. Hd 2+
 molt June 6 Hd higher than body. Setae
 whitest. Along blackish red or nearly black
 a few hairs. Body black, thickly covered with
 round yellow dots each with a black center
 which is a very fine 2nd horn. These dots are
 larger on a row sd (11) and s-v (10+11) including
 1st horn & 2nd horn. Spine always
 like a sticklike, the setae rather short
 and the branches 1; (2nd) well developed.
 Horn 2-2 and (2nd) 2-4 long, but other 10-12
 short other than the quite black tipped, the
 dorsal are with a seta but none of the


 1st branch the 20 beds.
 2nd branch the 20 beds.
 3rd branch the 20 beds.
 202
 larger & shaly not porous
 branches.

4th anal plate & feet dark malapigmented. Body black, as before but the secondary spinules & the yellow spots a little more numerous, constant around & inside of under the indented 5-6 band.

Agave *Chazis* "mittallii" from Mr. C. V. Pipes
Piedras Blancas, in *Syntherisma* *proliferans*

4-12 all black, show middle like; type 2 & 3 scarcely distinguishable, except for type 2 on point 3, but this may be due to the fact that all the quills are black like the downy of the spine and hence look quite alike. Usually as type 2 except on j. 3 ^{13?} for which all the samples on it bear quite a true. (see them or.)

Wet 100, 28 (old 2.8) mixed 3.82 all black,
no brown quills or only a trace in ①
4. 2 black, 1 white, white in ①

the setae on long spines, but the shafts & branches black. Skin black, no lines, but the same died just after shedding and they may not have appeared yet. Spines white. The body is as long as the head as in a male fly. The legs are

Zygia rubra
 L.G.O. Miller, Berkeley, Cal. & D. Baker
 Hatching May 26, 1895. Eggs covered with hair
 in neat round thick mats just like pulsa
 & shiny black. w. 55 ± Body very dark, no
 marks seen at first, warts large very close
 set as both shoulders. Stg. on 2, " on 5-8
 and 12 especially large. Hairs many from
 each wart, very long, pale and dark. Later
 3-4, 7-11 white & dusky

with large black m. on each side
back, no mark on the rest of the body & white
line of the head. 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100 - 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108 - 109 - 110 - 111 - 112 - 113 - 114 - 115 - 116 - 117 - 118 - 119 - 120 - 121 - 122 - 123 - 124 - 125 - 126 - 127 - 128 - 129 - 130 - 131 - 132 - 133 - 134 - 135 - 136 - 137 - 138 - 139 - 140 - 141 - 142 - 143 - 144 - 145 - 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153 - 154 - 155 - 156 - 157 - 158 - 159 - 160 - 161 - 162 - 163 - 164 - 165 - 166 - 167 - 168 - 169 - 170 - 171 - 172 - 173 - 174 - 175 - 176 - 177 - 178 - 179 - 180 - 181 - 182 - 183 - 184 - 185 - 186 - 187 - 188 - 189 - 190 - 191 - 192 - 193 - 194 - 195 - 196 - 197 - 198 - 199 - 200 - 201 - 202 - 203 - 204 - 205 - 206 - 207 - 208 - 209 - 210 - 211 - 212 - 213 - 214 - 215 - 216 - 217 - 218 - 219 - 220 - 221 - 222 - 223 - 224 - 225 - 226 - 227 - 228 - 229 - 230 - 231 - 232 - 233 - 234 - 235 - 236 - 237 - 238 - 239 - 240 - 241 - 242 - 243 - 244 - 245 - 246 - 247 - 248 - 249 - 250 - 251 - 252 - 253 - 254 - 255 - 256 - 257 - 258 - 259 - 260 - 261 - 262 - 263 - 264 - 265 - 266 - 267 - 268 - 269 - 270 - 271 - 272 - 273 - 274 - 275 - 276 - 277 - 278 - 279 - 280 - 281 - 282 - 283 - 284 - 285 - 286 - 287 - 288 - 289 - 290 - 291 - 292 - 293 - 294 - 295 - 296 - 297 - 298 - 299 - 300 - 301 - 302 - 303 - 304 - 305 - 306 - 307 - 308 - 309 - 310 - 311 - 312 - 313 - 314 - 315 - 316 - 317 - 318 - 319 - 320 - 321 - 322 - 323 - 324 - 325 - 326 - 327 - 328 - 329 - 330 - 331 - 332 - 333 - 334 - 335 - 336 - 337 - 338 - 339 - 340 - 341 - 342 - 343 - 344 - 345 - 346 - 347 - 348 - 349 - 350 - 351 - 352 - 353 - 354 - 355 - 356 - 357 - 358 - 359 - 360 - 361 - 362 - 363 - 364 - 365 - 366 - 367 - 368 - 369 - 370 - 371 - 372 - 373 - 374 - 375 - 376 - 377 - 378 - 379 - 380 - 381 - 382 - 383 - 384 - 385 - 386 - 387 - 388 - 389 - 390 - 391 - 392 - 393 - 394 - 395 - 396 - 397 - 398 - 399 - 400 - 401 - 402 - 403 - 404 - 405 - 406 - 407 - 408 - 409 - 410 - 411 - 412 - 413 - 414 - 415 - 416 - 417 - 418 - 419 - 420 - 421 - 422 - 423 - 424 - 425 - 426 - 427 - 428 - 429 - 430 - 431 - 432 - 433 - 434 - 435 - 436 - 437 - 438 - 439 - 440 - 441 - 442 - 443 - 444 - 445 - 446 - 447 - 448 - 449 - 450 - 451 - 452 - 453 - 454 - 455 - 456 - 457 - 458 - 459 - 460 - 461 - 462 - 463 - 464 - 465 - 466 - 467 - 468 - 469 - 470 - 471 - 472 - 473 - 474 - 475 - 476 - 477 - 478 - 479 - 480 - 481 - 482 - 483 - 484 - 485 - 486 - 487 - 488 - 489 - 490 - 491 - 492 - 493 - 494 - 495 - 496 - 497 - 498 - 499 - 500 - 501 - 502 - 503 - 504 - 505 - 506 - 507 - 508 - 509 - 510 - 511 - 512 - 513 - 514 - 515 - 516 - 517 - 518 - 519 - 520 - 521 - 522 - 523 - 524 - 525 - 526 - 527 - 528 - 529 - 530 - 531 - 532 - 533 - 534 - 535 - 536 - 537 - 538 - 539 - 540 - 541 - 542 - 543 - 544 - 545 - 546 - 547 - 548 - 549 - 550 - 551 - 552 - 553 - 554 - 555 - 556 - 557 - 558 - 559 - 560 - 561 - 562 - 563 - 564 - 565 - 566 - 567 - 568 - 569 - 570 - 571 - 572 - 573 - 574 - 575 - 576 - 577 - 578 - 579 - 580 - 581 - 582 - 583 - 584 - 585 - 586 - 587 - 588 - 589 - 590 - 591 - 592 - 593 - 594 - 595 - 596 - 597 - 598 - 599 - 600 - 601 - 602 - 603 - 604 - 605 - 606 - 607 - 608 - 609 - 610 - 611 - 612 - 613 - 614 - 615 - 616 - 617 - 618 - 619 - 620 - 621 - 622 - 623 - 624 - 625 - 626 - 627 - 628 - 629 - 630 - 631 - 632 - 633 - 634 - 635 - 636 - 637 - 638 - 639 - 640 - 641 - 642 - 643 - 644 - 645 - 646 - 647 - 648 - 649 - 650 - 651 - 652 - 653 - 654 - 655 - 656 - 657 - 658 - 659 - 660 - 661 - 662 - 663 - 664 - 665 - 666 - 667 - 668 - 669 - 670 - 671 - 672 - 673 - 674 - 675 - 676 - 677 - 678 - 679 - 680 - 681 - 682 - 683 - 684 - 685 - 686 - 687 - 688 - 689 - 690 - 691 - 692 - 693 - 694 - 695 - 696 - 697 - 698 - 699 - 700 - 701 - 702 - 703 - 704 - 705 - 706 - 707 - 708 - 709 - 710 - 711 - 712 - 713 - 714 - 715 - 716 - 717 - 718 - 719 - 720 - 721 - 722 - 723 - 724 - 725 - 726 - 727 - 728 - 729 - 730 - 731 - 732 - 733 - 734 - 735 - 736 - 737 - 738 - 739 - 740 - 741 - 742 - 743 - 744 - 745 - 746 - 747 - 748 - 749 - 750 - 751 - 752 - 753 - 754 - 755 - 756 - 757 - 758 - 759 - 760 - 761 - 762 - 763 - 764 - 765 - 766 - 767 - 768 - 769 - 770 - 771 - 772 - 773 - 774 - 775 - 776 - 777 - 778 - 779 - 780 - 781 - 782 - 783 - 784 - 785 - 786 - 787 - 788 - 789 - 790 - 791 - 792 - 793 - 794 - 795 - 796 - 797 - 798 - 799 - 800 - 801 - 802 - 803 - 804 - 805 - 806 - 807 - 808 - 809 - 810 - 811 - 812 - 813 - 814 - 815 - 816 - 817 - 818 - 819 - 820 - 821 - 822 - 823 - 824 - 825 - 826 - 827 - 828 - 829 - 830 - 831 - 832 - 833 - 834 - 835 - 836 - 837 - 838 - 839 - 840 - 841 - 842 - 843 - 844 - 845 - 846 - 847 - 848 - 849 - 850 - 851 - 852 - 853 -

Large light orange. Very long black, more
frequent but small tufts of hair on
the sides of the head. The hair is thin
& the skin is pale. Taken at home
on the 1st of June (1881) - no other

The ^{broken} joints are 100%, sd joint
the full length as in 3-4, 9; it is gradually broken.

at base. The crown blackish grey. Hair
fine rather pale but ^(anterior) ~~supra~~ plate black.

West June 3 ...

St 6 7-8 ...

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West June 9 Hd 1st as before.

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June 14 Hd 2d

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on rest.

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[525-B] Hair .6 mm Sloughed? - Hair 1.6 mm Sloughed L.S.
 525-528-A Hair 2mm Sloughed? - Hair 3mm sloughed L.O
 From alcohols 525 & 528 to dry haired kind! Page 570A
 525 528 etc

Epipactis atrorubens (L.) Sw. V
Thence on rough-clump-whorled leaves, Van Cortlandt
Park, June 27 1895. Over a very conspicuous large
and light green spot below skin sd. as 9. grow
up to 15. Leaf green with a white dorsal
streak. Sd. blue. Prose in measure.

100' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100' 101' 102' 103' 104' 105' 106' 107' 108' 109' 110' 111' 112' 113' 114' 115' 116' 117' 118' 119' 120' 121' 122' 123' 124' 125' 126' 127' 128' 129' 130' 131' 132' 133' 134' 135' 136' 137' 138' 139' 140' 141' 142' 143' 144' 145' 146' 147' 148' 149' 150' 151' 152' 153' 154' 155' 156' 157' 158' 159' 160' 161' 162' 163' 164' 165' 166' 167' 168' 169' 170' 171' 172' 173' 174' 175' 176' 177' 178' 179' 180' 181' 182' 183' 184' 185' 186' 187' 188' 189' 190' 191' 192' 193' 194' 195' 196' 197' 198' 199' 200' 201' 202' 203' 204' 205' 206' 207' 208' 209' 210' 211' 212' 213' 214' 215' 216' 217' 218' 219' 220' 221' 222' 223' 224' 225' 226' 227' 228' 229' 230' 231' 232' 233' 234' 235' 236' 237' 238' 239' 240' 241' 242' 243' 244' 245' 246' 247' 248' 249' 250' 251' 252' 253' 254' 255' 256' 257' 258' 259' 260' 261' 262' 263' 264' 265' 266' 267' 268' 269' 270' 271' 272' 273' 274' 275' 276' 277' 278' 279' 280' 281' 282' 283' 284' 285' 286' 287' 288' 289' 290' 291' 292' 293' 294' 295' 296' 297' 298' 299' 300' 301' 302' 303' 304' 305' 306' 307' 308' 309' 310' 311' 312' 313' 314' 315' 316' 317' 318' 319' 320' 321' 322' 323' 324' 325' 326' 327' 328' 329' 330' 331' 332' 333' 334' 335' 336' 337' 338' 339' 340' 341' 342' 343' 344' 345' 346' 347' 348' 349' 350' 351' 352' 353' 354' 355' 356' 357' 358' 359' 360' 361' 362' 363' 364' 365' 366' 367' 368' 369' 370' 371' 372' 373' 374' 375' 376' 377' 378' 379' 380' 381' 382' 383' 384' 385' 386' 387' 388' 389' 390' 391' 392' 393' 394' 395' 396' 397' 398' 399' 400' 401' 402' 403' 404' 405' 406' 407' 408' 409' 410' 411' 412' 413' 414' 415' 416' 417' 418' 419' 420' 421' 422' 423' 424' 425' 426' 427' 428' 429' 430' 431' 432' 433' 434' 435' 436' 437' 438' 439' 440' 441' 442' 443' 444' 445' 446' 447' 448' 449' 450' 451' 452' 453' 454' 455' 456' 457' 458' 459' 460' 461' 462' 463' 464' 465' 466' 467' 468' 469' 470' 471' 472' 473' 474' 475' 476' 477' 478' 479' 480' 481' 482' 483' 484' 485' 486' 487' 488' 489' 490' 491' 492' 493' 494' 495' 496' 497' 498' 499' 500' 501' 502' 503' 504' 505' 506' 507' 508' 509' 510' 511' 512' 513' 514' 515' 516' 517' 518' 519' 520' 521' 522' 523' 524' 525' 526' 527' 528' 529' 530' 531' 532' 533' 534' 535' 536' 537' 538' 539' 540' 541' 542' 543' 544' 545' 546' 547' 548' 549' 550' 551' 552' 553' 554' 555' 556' 557' 558' 559' 560' 561' 562' 563' 564' 565' 566' 567' 568' 569' 570' 571' 572' 573' 574' 575' 576' 577' 578' 579' 580' 581' 582' 583' 584' 585' 586' 587' 588' 589' 590' 591' 592' 593' 594' 595' 596' 597' 598' 599' 600' 601' 602' 603' 604' 605' 606' 607' 608' 609' 610' 611' 612' 613' 614' 615' 616' 617' 618' 619' 620' 621' 622' 623' 624' 625' 626' 627' 628' 629' 630' 631' 632' 633' 634' 635' 636' 637' 638' 639' 640' 641' 642' 643' 644' 645' 646' 647' 648' 649' 650' 651' 652' 653' 654' 655' 656' 657' 658' 659' 660' 661' 662' 663' 664' 665' 666' 667' 668' 669' 670' 671' 672' 673' 674' 675' 676' 677' 678' 679' 680' 681' 682' 683' 684' 685' 686' 687' 688' 689' 690' 691' 692' 693' 694' 695' 696' 697' 698' 699' 700' 701' 702' 703' 704' 705' 706' 707' 708' 709' 710' 711' 712' 713' 714' 715' 716' 717' 718' 719' 720' 721' 722' 723' 724' 725' 726' 727' 728' 729' 730' 731' 732' 733' 734' 735' 736' 737' 738' 739' 740' 741' 742' 743' 744' 745' 746' 747' 748' 749' 750' 751' 752' 753' 754' 755' 756' 757' 758' 759' 760' 761' 762' 763' 764' 765' 766' 767' 768' 769' 770' 771' 772' 773' 774' 775' 776' 777' 778' 779' 780' 781' 782' 783' 784' 785' 786' 787' 788' 789' 790' 791' 792' 793' 794' 795' 796' 797' 798' 799' 800' 801' 802' 803' 804' 805' 806' 807' 808' 809' 810' 811' 812' 813' 814' 815' 816' 817' 818' 819' 820' 821' 822' 823' 824' 825' 826' 827' 828' 829' 830' 831' 832' 833' 834' 835' 836' 837' 838' 839' 840' 841' 842' 843' 844' 8

526

[illegible][illegible]

On Eupatorium (perennium) but
on under side of leaves, bent
over at edge) & slightly webbed.

hd. 7 row of d. & curved
sd & base of outstg line
hd. 5 iv-v central looks like
a white line

hd. 1.0 hair 1.5 mm above
dorsum. white sd
& trace of ss line. median line
dorsum d. & vent. sd line.
Hair white. Late d. hair
(i & ii) blackish tinged

= 525 B = 529

~~12~~

beta iii single; iv a
by no means cons
v, with or without
and behind it; vi
leg. joints 3 and
and subprimaries
near ia and ib and
joint 4, but variable
on joint 4 though

[325-B Hair .6 mm stylized 7 - Hair 1.6 mm stylized 1.8]
 25-525-A AC/ke. 1st Hair 2 mm stylized 7 - Hair 3 mm stylized 1.0
 From alcohol 325 of 1975 is long haired kind! - From 325 of 1975
 525-1975

524

Eupatorium purpureum (Michx.)

Flowers on deeply-veined leaves, Van Cortlandt.

Back June 7 1895. Overthrust a very conspicuous large
oval light yellow spot below stern scd on 9. none

4/10/19 - Leafy green with a white ground

Staphylinus *Staphylinus* *Staphylinus*

cont. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 8

Diagram 1: $\text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{H}_2\text{CO}_3$

Lophoceros with nest 2 eggs.

Have stiff in very coarse, white, caustic

have a small bouquet. Will please also

ans 17? a single 1' coral bed of *Hydractis*

old gold pen, oca to black/white pen 2/100

27/1/42, and 28/1/42, was less than 1/2, and

white; not white (you are not white)

along i-ii' then I see faint red spots. (Pencil marks)

Page 1002 Fastened only by cementer but not to
the wall. The same as the other.

had secondary type of a similar species which
had had about 5 years with same coloration and

A plan showing location of road, and the land, adjacent to the road, and the road.

setae resembling hairs. ad. 1st parts in
2nd 2nd part

...and ...
...chair in ...
...to a ...

13-1-1968
10-1-1968

Don't get very

526

Theraps? or Ind. honeyeater (*Gracula tufida*)

Jefferson Highland N.H. June 14 1895 - Flatland

the retractor, incision deep, in folds, a promi-

next to ridge, O^{th} white, but blackish, smooth

hous. Body soft velvety leaf green (yellowish)

an obscure Transvaal and I found my son a

dorsal line dark green; a ³⁻¹⁰ dorsal fin of 10 rays

5-d. seg. line_1 & line_2 2 v. n. d. f. c. gelblich

Spines white, round; leaf $\frac{1}{2}$ - 1" long

with pale pile s-r. Body covered of pubesc.

Has just arrived. Ship a June 20

529

2nd 7 no sd. a slp. like 7th (see above as 580) P

land fields and woods. (Nest) Family: Swamp Sparrow, by the
of white-green, brown and short, obscure marks.

Paris, 18th behind St. Anne's & under the archway of the bridge that
leads to the river. Small ruins, Corbel. Shower of rain
June 18th.

Xyloperla, tubulated, moderate size.

Halobutyrus *perfoliatus* Washington, 1841

[Faint handwritten notes at the bottom of the page, possibly bleed-through from the reverse side.]

... Hair a white, slightly, as before, and the

62. June 20. Imago July 10 Dysommophia phyllosa

527

The lichen covered up to (or over) Jefferson. Height
H.A., June 17 1895. Gray dotted with pale green
with thin, long, low, black (ish) lines. Head
brownish gray, with a pale
green narrow transverse irregular lines; ground
color seems greenish. Dotted with black
brown which appears to almost entirely except
these bands, when on stone, like lichen.

15th mm body rather flattened, brown grey,
with many irregularly triangular transverse
darker patches; a general rather large
ant. patch & 2 lateral ones also ant. one
pale yellow, the feet whitish. ⁵⁻¹¹ ~~ant. feet~~
the shape the other irregular & the numerous
to define. Leg pale. Setae as in *Arctura*, I, II
single, long, black, III 2 setae, IV shg. joint, V
ant. 2 setae; VI 2 setae; 2 setae in sternal
coxae leg plate. tubercles white. ¹⁰⁻¹²
center. 2 setae probably broken off. Lat. surface shg.
and 55 lines. Full stage appears on 10-12

478 - 2 = 62

[illegible]

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 copy, placed on a red flap. The
 black, double, double, double, double
 black, double, double, double, double
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in a beautiful arched thin web on side of apple
June 20. Imago July 10 Lycomorpha pholus

527

(On lichen covered rocks (a wall) Jefferson Highlands
N.H., June 17 1895. Gray dotted with pale green
with thin very long blackish hairs. Head
lower part of face and pale
below, slightly larger, with brown with a pale
green narrow transverse irregular lines; ground
color seems green, thickly clothed with black
hairs which obscure it almost entirely except
these bands, which are short white hairs.

1.5 mm Body rather flattened, brown gray
with many irregularly triangular brown
streaked patches; a few small rounder
light patch & 2 leaf-like ones also not. are
pale yellow. the feet whitish. ⁵⁻¹¹ Ant. 11
the shape the others irregular, the numerous
to define. Legs pale. Setae as in Victoria, I, II
single, long, black; III of 2 setae, IV 5, V
ant, single; VI of 2 setae; 2 setae on abdominal
converging leg plate, tubercles with
center, 8, 9, probably broken off, last, single setae
and 55 lines. All closely appressed on 12.

528 = 8-62

(15)
1895

Acronycta on wild cherry, (12 June 1895)
off. 17, with June 19 1895. Egg. Round, very flat
the well marked vertical green lines, obscure
at summit & less numerous. Transverse lines
nearly even, fainter. A slight rim at base
where applied to leaf. 1 mm long & about .25 mm
colored, a little whitish. not eating the leaf
same translucent white no marks
Setae single, normal, in dark A
the rest pale. feet green eye
black round horn in 3 mm 42 long
than wide, round pointed. Hairs long, curved
Went June 20 40 squares with 5 lobes, colored
very fresh about brown W. 5. Red, colored except
for contents of it good of transparency a little
opaque white top. Warts large, conical, each
having a crown of shorter pale setae besides
the long central dark one. 50 warts with setae
all pale. IV small in white & black line VI
distinct, elongate from middle. Ten setae on leg plate.

later pale green along a broken white sd line
molt June 13 Hd 1.0 all pale green, a pale broken yellowish sd
line. Vents, carotid, head more numerous the long ones more
than one. Hairs long, pale except some of the long dorsal ones.
molt June 27 Hd whitish, faintly brown mottled on upper part of face
W. 1.8± Body green, a yellowish sd line along bottom of V, III,
dorsal part on thorax. Hairs long, black except some vent. carotid
12-13 and 14-15. 2 hairs below 22 hairs lateral 25 (2nd stage)
Tale space d. becomes thickened with brown faintly 2-12
on brown dotted mottled. on head are distinct at apex of
lobes on front. (Suggests *radcliffei* or *superans*. Tale yellow
Hairs also n 13. Angles same. a broad yellow band
enlarged by 1 on each point 2-13 brown central, lateral on
2-4. Subventrally elongated. Hd 1.1± yellowish, brown spots on
molt July 1 Hd 2.5± green mottled with red brown. white
ground. Hairs long, black. Body green, a
d. line a d. ridge white d. space, edge of white yellow. (V)
reaching to anal. in blackish a tiny 12. Hair thin
dark d. under fur 22 and 23-24. Tale green, a
yellowish band brownish red, darker on 3-5, broken
yellowish in maxilla, oblique 2 point, reaching 13, enlarging 12
molt July 7 Hd 3.7± [=BB8] HA lobed, shining black. Dorsal
labeled, the coarse setae pale. Body dark blackish the
vent pale greenish with central brown & radiating
brown, the brownish setae like the dorsal ones
more 22 ones. A dorsal bright red stripe narrowly
edged with velvet black irregular broken 3-11.
2 velvet black. 1 black. Dorsal 1 feet pale, and
vent except leg plate. Tale vent brown except the
two middle, 1 red line which are black.

Apatela lobelina (=8)

much except from face; ~~on face~~
Hd whitish green, eyes black except brown
red, green, head 5-11 (i-ii) and 2-5 (10-14) white
line, narrow d. 1 lateral (above III) the latter
narrowed. Vents also whitish, hairs white, stiff
W. 1.8± Head brown and 2 white bands on face
Apatela on *Brunnifemur* 233A
Hairs pointed lobes, green with a few white
hairs W. 1.1± Body lighter than male, green
a broad yellow band to II, divergent into two
bands on 2-4. Vents cranial, carotid, on
single stiff, setae and even 1 dorsal
hairs. IV small, a few fine setae along
hair on in region of V, VI present, distinct.
Dorsal hair blackish 15-18 all pale. Leg plate
52 carotid green, with few pale hairs, 12-14
molt June 13 Hd 2.3± green mottled with brown on face
on 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Oct Oct 1/79/1 = 449 B

Acronycta on *Brunsvigia* 233A

Hd with pointed lobes, green with a few white hairs w. 1.1 ± Body lighter than wings, green a good yellow band to 11, divergent into two bands on 2-4. Vents conical, colorless or

light. 1st, 2nd and 3rd of green hairs. iv small, a few fine black along base. 2-v in region of v; vi present, distinct. Ground hair blackish, 3-v all pale. Leg plate complete green, with few pale hairs. (2nd 11)

Apr 23 Hd 2, 3 ± green. 1st 2nd with brown on face of ant. like a horn. 12 □ enlarged d. a little and same clear apical. 2d legs and antennae a long pale horn and 1st 2nd. 3rd a dorsal red-brown band 3-12 edged with yellow. [Died]

~~Notably = 492~~

Nov 11 = 233

Superior is radcliffei?

(see 428)

lobata!

Lincoln Safe Deposit Co.

Burglar Proof Vaults

Fire Proof ^{and} Storage Warehouses,

32 to 42 East Forty Second St.

New York City.

Mr Harrison

Not Adams of J. W. J.
House

Jefferson Highlands

N H

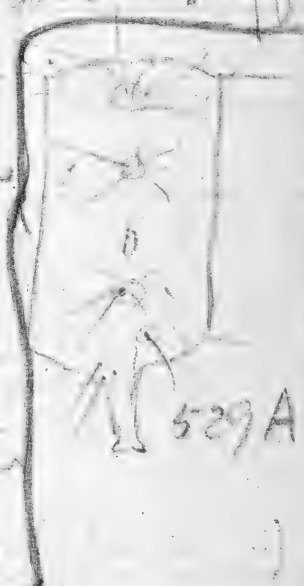
Later pale green, along ii a broken white sd line
 molt June 23 Hd 1.0 all pale green, a pale broken yellowish sd
 line. Hair concolorous, hair more numerous the long ones more
 than one. Hair long, pale except some of the long dorsal ones.
 molt June 27 Hd almost white, faint brown mottled on upper part of face
 W. 1.8 ± Body green a yellow sd line along below i-iii
 dusky on the ap. Hair fine, black, white hair concolorous
 12.0? Hd bilobed. A few fine 2d hair lateral (1/2 inch 16y.)
 Later face d. becomes tinged with brown faintly 2-11
 the brown dotted mottling on head are distinct at apex of
 lobes in front. (Suggests *radcliffei* or *superans*. Later yellow
 runs along out 13. *Angitia* same, a broad yellow band
 enlarged by ii on each joint 2-13 brown centered, lateral on
 3-5, indistinctly chlorinate. Hd 1.8 ± yellowish, brown spotted.
 Molt July 1 Hd 2.5 ± green mottled with red brown on white
 ground on apex of face, both sides, apex. Body green, on
 d. line a dry ridge like d. space, edged with yellow (11)
 reaching 13, enlarged in black on 12-13. Hair thin,
 dark d. thicker from 2d and 3d to 5v. Later green, pale
 yellowish. D. band brownish red, darker on 3-5, broken
 & yellowish on narrow, oblique 2 post. reaching 13, enlarged 12
 Molt July 7 Hd 3.7 ± [=BB8] Hd bilobed, shining black, slight
 chagreened, the coarse setae pale. Body, dark bluish d.
 wants fine points with central hair & radiating
 crown, the brownish setae like the scales and
 more on 2d ones. A dorsal bright red stripe narrowly
 edged with velvety black, irregular broken, 3-11.
 12 & velvety black. i black, clasp 1 feet pale, and
 feet, except by plate. Later wants brown except the
 line looking d. red line which are black.

Apatela lobeliae (1-8)

529

Mouth except jaws pale; ~~anterior for 1/2 inch~~
 Hd terracotta green, eye black around brown
 Ld yellow, broad sd (i-ii) and 2-5 (iv+v) white
 line, narrow d. lateral (above iii) the latter
 waved. Hair also whitish, hair white stiff

moderate, long and abundant
 1st clear, broken down no 2 hair
 2nd clear, broken down no 2 hair
 3rd clear, broken down no 2 hair
 4th clear, broken down no 2 hair
 5th clear, broken down no 2 hair
 6th clear, broken down no 2 hair
 7th clear, broken down no 2 hair
 8th clear, broken down no 2 hair
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 98th clear, broken down no 2 hair
 99th clear, broken down no 2 hair
 100th clear, broken down no 2 hair



529A On clove i + ii some 2d hair with ends yellow
 ends green, long, whitish sd and black
 ones along iii and iv+v (in groups) 3-11
 Pupa June 21 (not young stage but mature) setae
 want present. Feeding by constricting only.
 Oct. Oct 1/1/1 = 449 B

French is the rare white
are being raised at same time
The first seen in the rose
in the garden
in the garden. Some

Calc. 4 .7 1.2 2.0 3.3 not b
 — .7 1.1 2.05 3.2
 Calc 42 .70 1.16 1.9 3.2 not b
 small dark of like shape; brown to white leaves
 melt before sun 28 ~~29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60~~

Tickets will be one dollar each, and should be
 procured at the entrance to the Clubhouse.
 Replies should be received by the Secretary not later
 than June 3. Attention is called to the fact that former
 students, not graduates, may be invited to these recep-
 tions. The Secretary will be glad to receive the addresses
 of any to whom it is desired that invitations be sent.
 H. W. TYLER, Secretary.
 Massachusetts Institute of Technology,
 Boston, May 26, 1896.

1.9	⁴⁴ .45	⁷⁷ .75	¹²⁸ 1.2	^{1.8} 1.8	^{3.0} 2.4	} (60)	<u>apicalis</u> (nan)
1.9	.4	—	1.3		3.2		
1.7	.35	.7	1.4		2.6		
1.8	.4	.7	1.1	2.	3.2	} (60)	<u>strigosa</u>
	.42	.70	1.16	1.92	3.2		
[.825	.4	.716	1.25	1.9	2.85	Average]	

in the evening.

Tickets will be one dollar each, and should be procured at the entrance to the Clubhouse.

Replies should be received by the Secretary not later than June 3. Attention is called to the fact that former students, not graduates, may be invited to these receptions. The Secretary will be glad to receive the addresses of any to whom it is desired that invitations be sent.

H. W. TYLER, Secretary.

*Massachusetts Institute of Technology,
Boston, May 26, 1896.*

another of 35

another of 25 one
sterile and pale
green, white toward base

another of 36

530

Much water than ran which
are being raised at same time
The great larva is darker than ran
Hd. blunt, reddish brown, body of a dark
purplish color. Same marks.

About 50 eggs of *Ichthyura* together on back of *Populus*

tremuloides leaf Jefferson Hyalensis. H. H. June 19 1895.

Egg. Somewhat emerald, not hemispherical though
high enough base flat, not shiny of a purplish
color the heads shiny black; shell not colorless but

milky white, ground glass like. Reticulation evident
near, but narrow, almost linear and rather

small, hexagonal but with rounded angles, a

small better marked area at vertex. 8 diam, .5 high
Fresh eggs bright light emerald green (infertile & many 18 1896)

Hatched June 20 Hd rather coriaceous, mouth pointed
shiny black; Body ^{rather flattened} grayish white, the slight elevation

on 12 more brown, and all of sides thus marked
with same color. Cth black, anal plate brown
The feet black. The vitta on the side is very obscure

and is most pronounced in a narrow sd line.
Setae single, long, dark at base, normal

Thoracic ones seem also normal, like I. ran

They are. Went cut 2 setae off Cth
4 on main part. On abd. vi is just indicated

by a tubercle but I find no seta on it.
OK Body covered with cuticular points.

Calc. 4 .7 1.2 2.0 3.3 not 6

— .7 1.1 2.05 3.2

Calc 42 .70 1.16 1.9 3.2 not 6

Do not rush off like ran; began to write leaves

Molt before June 28.

Hd slightly bilobed

shiny black

Body pale yellow d.

3-12 with 3 faint purplish lines. Cth canal
plate smooth. a central purple spot 5 & 12 the
latter a little enlarged. A sd purple brown
mottled line & faint mottling on the sides.
Feet & leg plate dusky. Hairs pale, some long.

Later the pale parts predominate so that body
seems annulated with pale, the vitta yellow.

Molt July 1 (Hd 1.1) New hd 2.1 Flattened. Hd shiny black

with many soft white hairs, bilobed, median
suture deep, a small, triangular, annular below
the bulging lobes, flat. Body appears as before. A
whitish ground traversed faintly by triple dorsal
triple, closer lateral and double stig, broken various
purplish brown bands, the d. fainter than others
Central d. spot behind i a 5 & 12 brown; no brown
Wants all yellow, 2^d & 1st hair soft pale, not long.

Feet pale. Line obsolete on 13. Cth dusky

Molt July 12 (Hd 2.05 new) New hd. 3.2 ± Hd black the broad high
triangle pale, almost purplish, seems sunken. Body as
before the d. patches a 5 & 12 much fainter. Warts
conspicuously yellow. Hairs fine, obscure. No elevation 5, 1
sd 3 pairs fused lateral & stig. lines equally distinct all
of a pale brown, mottled pulverulent on a dirty whitish
ground broader than the spaces between. The spaces form
a narrow pale line a each side. S-V region narrow even
brown mottled. Spots a 5 & 12 do not show though indi-
cated. A coating of very short, thick fine white setae pale
(Hd 2.4 2 headed) A single example had bright
colored. Lobes of head black, triangle pale, not brown as
in ran. Body whitish or yellowish white.

the lines red, "lakes red", the 3 dorsal fainter
than the lateral ones. Tubercles yellow the
lateral ones giving appearance of yellow
line alternating with the lateral red ones
Larva is simply paler than the others.

Larva must be all black, lines dark dull purple
head mottled speckled red giving the ground
color to narrow cinchely pale line. Color all
very uniform, wings yellow but small and
inconspicuous. Skin of the whitish line of ground
are broken into ring spots & streaks, about
six across on each side, nearly continuous. The
body is :: dull purple, dark, with the narrow
pale line & rings, mottled and the small yellow
tubercles. Hair very inconspicuous, fine, short,
about 1 from a cent. 2^d very fine like pile.

Becomes ripe fed between leaves. Pupae by July 25-

May 6 1896

Ichneumon strigosa

531

4 Acromycta eggs, scattering on 2 leaves of woolly willow
Jefferson Highlands, Mont. June 19 1895. A flattened, low
convex, outline a little irregular. Vertical
ribs form distinct wavy ridges, a few confluent
so much more distinct toward vertex, all cease
before micropyle which is irregularly reticulate
D. 8, height about .15 mm. Color whitish, subtranslucent
Another 531A on Mt. Ash June 23. (Egg same anyway)
Hatched into little groundless white looping
noctuids, no marks, 2 and feet nearly white
(not kept)

531B Round, flattened. The wavy ridges alternate pretty regularly long & short, the short ones not complement in pairs as in 531A but end free, mostly alternating with long ones, all wavy all connected at angles by distinct narrow cross lines forming // rounded hexagonal cells, elongate transversely. Micropyle rather irregularly reticulate, its main line being prolongation of the long ribs. .75 x .15 mm. Translucent white, scarcely shiny. *Yaspinger Noctuid*.

